

(54) SEALANT COMPOSITION HAVING CARBON FIBER INCORPORATED THEREIN

(11) 2-124990 (A) (43) 14.5.1990 (19) JP  
 (21) Appl. No. 63-278114 (22) 2.11.1988  
 (71) KITAGAWA KOGYO K.K. (72) KOJI KITAGAWA  
 (51) Int. Cl.<sup>3</sup>. C09K3/10

**PURPOSE:** To obtain the title composition having high breaking strength by mixing a polyurethane resin (precursor) with carbon fibers prepared by the vapor phase process wherein an ultrafine powder of a high-melting metal (compound) is suspended in a hydrocarbon pyrolysis zone.

**CONSTITUTION:** The title composition is obtained by mixing a polyurethane resin or its precursor with carbon fibers prepared by the vapor phase process wherein an ultrafine powder of a high-melting metal or a compound thereof (e.g., Fe, Co, Ni, V, Nb, Ta, and Zn, or oxides, nitrides, and salts thereof) is suspended in a hydrocarbon pyrolysis zone. The amount of carbon fibers incorporated is preferably 5-30wt.% based on the polyurethane resin. This composition can give packings and sealing material having high breaking strength. Since the carbon fibers used have sufficient conductivity, this composition can be formulated to give a conductive sealant when they are used in an appropriate amount.

(54) SEALANT

(11) 2-124991 (A) (43) 14.5.1990 (19) JP  
 (21) Appl. No. 64-111595 (22) 28.4.1989 (33) JP (31) 88p.106659 (32) 28.4.1988  
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 (51) Int. Cl.<sup>3</sup>. C09K3/10, C08F218/04, C08F220/12, F16J15/10

**PURPOSE:** To obtain a sealant excellent in tensile strength, elasticity, sealing properties, chemical resistance, etc., and improved in the influence on the environment by providing a cushioning part consisting of a copolymer comprising an  $\alpha$ -olefin and a carboxylated vinyl monomer and crosslinked by irradiation with a radiation or electron beams.

**CONSTITUTION:** A sealant which has a cushioning part consisting of a copolymer of an  $\alpha$ -olefin (preferably a 2-5C  $\alpha$ -olefin) with a carboxylated vinyl monomer (e.g., vinyl acetate or a 1-5C alkyl acrylate), crosslinked by irradiation with a radiation or electron beams. This sealant is excellent in tensile strength, elasticity, sealing properties, chemical resistance, etc., and improved in the influence on the environment or in safety. It is inexpensive.

BEST AVAILABLE

(54) SOIL CONDITIONING AND SNOW-MELTING AGENT

(11) 2-124992 (A) (43) 14.5.1990 (19) JP  
 (21) Appl. No. 63-277347 (22) 4.11.1988  
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 (51) Int. Cl.<sup>3</sup>. C09K3/18, C09K17/00

**PURPOSE:** To obtain the title agent which can be scattered evenly, by treating a carbon black with an aqueous solution of a humic acid salt and dispersing the treated carbon black in water.

**CONSTITUTION:** A carbon black having an aggregate Stokes' diameter of 10nm or greater is treated with an aqueous solution of an ammonium, potassium or calcium salt of humic acid, and kneaded to form a paste, which is dispersed in water to give the title agent containing 20wt.% or less, preferably 15wt.% or less, carbon black.